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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/605,571	10/09/2003	Takeshi Ikeda	22040-00020-US	2570
30678	7590 08/06/200	4	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ LLP			MOTTOLA, STEVEN J	
SUITE 800 1990 M STR	EET NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036-3425			2817	

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/605,571	IKEDA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Steven J. Mottola	2817	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with t	he correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailling date of this communication.  - If the period for reply specified above is less than thirty (30) days, a release. If NO period for reply is specified above, the maximum statutory perions are provided by the set of extended period for reply will, by state than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1.  1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (30 d will apply and will expire SIX (6) MONTHS ute, cause the application to become ABAND	be timely filed ) days will be considered timely, from the mailing date of this communionED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 2a) This action is <b>FINAL</b> . 2b) ☑ The 3) Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters		rits is
Disposition of Claims			
4) Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withden 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are subject to restriction and are subject to restriction and are subject to perfect to by the Examing the specification is objected to by the Examing the drawing(s) filed on is/are: a) are subject to restriction and are subject to by the Examing the specification is objected to by the specificant may not request that any objection to the Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the	rawn from consideration.  I/or election requirement.  ner.  ccepted or b) objected to by the drawing(s) be held in abeyance.  ection is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1	
	Examiner. Note the attached O	mod Addid i di idili i i di i	<b>V</b> 2.
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life.	ents have been received. ents have been received in Appl riority documents have been rec eau (PCT Rule 17.2(a)).	ication No eeived in this National Sta	ge
Attachment(s)	4) ☐ Interview Sum	many (PTO-413)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 100903.</li> </ol>	Paper No(s)/M	mary (P10-413) ail Date mal Patent Application (PTO-152	2)

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1,2 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Aude.

Refer to the figure of Aude. Cascaded differential amplifiers which may be read as the n differential amplifiers claimed are shown each having a current source transistor T15,T25,T35,T45 which may be read as the plurality of transistors claimed connected to a current reference IBIAS that may be read as the current source claimed via mirror transistor T81 which may be read as the current mirror claimed. The transistors T15...T45 are arranged on one side of the current source IBIAS which in re claim 2 is on the input side. The above reading may also be applied to claim 5 for the case of one group.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aude.

The difference added by this claim is that the current source is centered w.r.t. the n differential amplifiers; however, the arrangement is functionally equivalent to that of the reference since it would not have mattered where the current source was placed as long as the current is mirrored to the plurality of transistors.

Claims 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aude in view of Ingrashi et al.

The difference added by these claims is the separate ground lines for each of the plurality of transistors. However, Igarashi et al. disclose just such an arrangement in fig. 2 for instance where transistors Q15,Q16 which supply current to respective cascaded

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differential pairs are each grounded via separate lines. It would have been obvious to apply such an arrangement to the transistors T15...T45 of Aude in order to have shorter leads less prone to stray impedances for instance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Mottola whose telephone number is 571-272-1766. The examiner can normally be reached on M-Th from 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal, can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven J. Mottola Primary Examiner